

# **DBMS Lab**

## **Experiment-7(Views)**

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**Aim:** To study the various view operations in SQL

### **Theory:**

#### **Views**

Views in SQL are virtual tables. A view also has rows and columns as they are in a real table in the database. We can create a view by selecting fields from one or more tables present in the database. A View can either have all the rows of a table or specific rows based on certain conditions.

#### **Types of views**

- CREATE
- UPDATE
- DELETE
- DROP
- JOIN

#### **Create View**

We can create a view using the CREATE VIEW statement. A View can be created from a single table or multiple tables.

#### **Syntax:**

```
CREATE VIEW view_name AS  
SELECT column1, column2.....  
FROM table_name  
WHERE condition;
```

#### **Insert**

We can insert a row in a View in the same way as we do in a table. We can use the INSERT INTO statement of SQL to insert a row in a View.

#### **Syntax:**

```
INSERT INTO view_name(column1, column2 , column3,..)  
VALUES(value1, value2, value3..);
```

### **Update**

A view can be updated with the CREATE OR REPLACE VIEW statement.

#### **Syntax**

```
CREATE OR REPLACE VIEW view_name AS  
SELECT column1, column2, ...  
FROM table_name  
WHERE condition;
```

### **Delete**

Deleting rows from a view is also as simple as deleting rows from a table. We can use the DELETE statement of SQL to delete rows from a view. Also deleting a row from a view first deletes the row from the actual table and the change is then reflected in the view.

#### **Syntax:**

```
DELETE FROM view_name  
WHERE condition;
```

### **Drop**

A view can be deleted using the Drop View statement.

#### **Syntax:**

```
DROP VIEW view_name;
```

### **Script:**

### **Result:**

Thus, the view commands were studied and executed successfully.

***(Script attached below)***

Statement 1



```
Create Table Employee (  
Employee_Name varchar2 (10),  
Employee_No number (8),  
Dept_Name Varchar2 (10),  
Dept_No Number (5),  
Date_Of_Join Date)
```

Table created.

Statement 2



Desc Employee

TABLE EMPLOYEE

Column	Null?	Type
EMPLOYEE_NAME	-	VARCHAR2(10)
EMPLOYEE_NO	-	NUMBER(8,0)
DEPT_NAME	-	VARCHAR2(10)
DEPT_NO	-	NUMBER(5,0)
DATE_OF_JOIN	-	DATE

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5 rows selected.

Statement 3



```
insert into employee values('Ravi',124,'CSE',89,DATE '2016-02-29')
```

1 row(s) inserted.

Statement 4



```
insert into employee values('Vijay',345,'ECE',21,DATE '2006-06-21')
```

1 row(s) inserted.

Statement 5



```
insert into employee values('Raj',98,'IT',22,DATE '2006-10-25')
```

1 row(s) inserted.

Statement 6



```
insert into employee values('Giri',100,'CSE',65,DATE '2003-10-25')
```

1 row(s) inserted.

Statement 7



```
Select * from employee
```

EMPLOYEE_NAME	EMPLOYEE_NO	DEPT_NAME	DEPT_NO	DATE_OF_JOIN
Vijay	345	ECE	21	21-JUN-06
Giri	100	CSE	65	25-OCT-03
Ravi	124	CSE	89	29-FEB-16
Raj	98	IT	22	25-OCT-06

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4 rows selected.

Statement 8



```
Create View Empview As Select Employee_Name,Employee_No,Dept_Name,Dept_No,Date_of_join from employee
```

View created.

Statement 9



```
Desc EmpView
```

VIEW EMPVIEW

Column	Null?	Type
EMPLOYEE_NAME	-	VARCHAR2(10)
EMPLOYEE_NO	-	NUMBER(8,0)
DEPT_NAME	-	VARCHAR2(10)
DEPT_NO	-	NUMBER(5,0)
DATE_OF_JOIN	-	DATE

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5 rows selected.

Statement 10



```
Select * from Empview
```

EMPLOYEE_NAME	EMPLOYEE_NO	DEPT_NAME	DEPT_NO	DATE_OF_JOIN
Vijay	345	ECE	21	21-JUN-06
Giri	100	CSE	65	25-OCT-03
Ravi	124	CSE	89	29-FEB-16
Raj	98	IT	22	25-OCT-06

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4 rows selected.

Statement 11



```
insert into Empview Values('Sri',120,'CSE',69,'16-Nov-1983')
```

1 row(s) inserted.

Statement 12



```
Select * from Empview
```

EMPLOYEE_NAME	EMPLOYEE_NO	DEPT_NAME	DEPT_NO	DATE_OF_JOIN
Vijay	345	ECE	21	21-JUN-06
Sri	120	CSE	69	16-NOV-83
Giri	100	CSE	65	25-OCT-03
Ravi	124	CSE	89	29-FEB-16
Raj	98	IT	22	25-OCT-06

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5 rows selected.

Statement 13



```
Delete from Empview where Employee_Name='Raj '
```

1 row(s) deleted.

Statement 14



```
Update Empview Set Employee_Name='Kavi' where Employee_Name='Ravi'
```

1 row(s) updated.

Statement 15



Select \* from Empview

EMPLOYEE_NAME	EMPLOYEE_NO	DEPT_NAME	DEPT_NO	DATE_OF_JOIN
Vijay	345	ECE	21	21-JUN-06
Sri	120	CSE	69	16-NOV-83
Giri	100	CSE	65	25-OCT-03
Kavi	124	CSE	89	29-FEB-16

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4 rows selected.

Statement 16



Drop View Empview

View dropped.

Statement 17



create or replace view EmpData(Eid,ENAME) As select Employee\_No,Employee\_Name from Employee

View created.

Statement 18



select \* from EmpData

EID	ENAME
345	Vijay
120	Sri
100	Giri
124	Kavi

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4 rows selected.